

REF ID: A108022

1

AD A108022

Computer Security Bibliography

(12) 33

Approved for public release; distribution unlimited

DTIC

Electronics

DD 25 001

335 050

100 100 100 100

Approved for public release; distribution unlimited

MITRE Technical Report

MTR 8199

Computer Security Bibliography

Anne-Marie G. Discepolo

November 1980

CONTRACT SPONSOR
CONTRACT NO
PROJECT NO
DEPT.

OUSDRE/C3i
AF19628-81-C-0001
8420
D75

MITRE
BEDFORD, MASSACHUSETTS

235000

Accession For	
NTI	<input checked="" type="checkbox"/>
DTI	<input type="checkbox"/>
Final	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A	

DTIC
ELECTE
S DEC 23 1981 D
D

Approved for public release; distribution unlimited.

Department Approval: Ed. J. [unclear]

MITRE Project Approval: Peter A. Tashiro

ABSTRACT

✓
This paper presents a categorized bibliography of published reports and papers on computer security. ↵

COMPUTER SECURITY INITIATIVE PROGRAM

TRUSTED SYSTEMS BIBLIOGRAPHY

November 1980

GENERAL

Anderson, J.P., "Computer Security Technology Planning Study", ESD-TR-73-51, Volume I and II, James P. Anderson & Co., Fort Washington, PA, October 1972.

Anderson, J.P., "System Architecture for Security and Protection", Privacy and Security in Computer Systems, NBS Special Publication 404, September 1974.

Anderson, J.P., "Notes on User Functionality for 'Secure' Systems", James P. Anderson & Co., Fort Washington, PA, June 29, 1979.

Beardsley, C.W., "Is Your Computer Secure?", IEEE Spectrum, January 1972.

Bishop, M., and Snyder, L., "The Transfer of Information and Authority in a Protection System", Proceedings of the Seventh Symposium on Operating Systems Principles, ACM SIGOPS Operating Systems Review, Vol. 13, No. 4, December 1979, pp. 45-54.

Branstad, D.K., "Privacy and Protection in Operating Systems", COMPUTER, Vol. 6, No. 1, January 1973, pp. 43-47.

Browne, P.S., "Computer Security - A Survey", Proceedings of the 1976 NCC, 1976, pp. 53-63.

Burke, E.L., "Final Report on the ESD Computer Security Technology Program", MTR-3484, The MITRE Corporation, Bedford, MA, April 1978.

Burke, E.L., "Computer Security Technology: The Second Generation," The MITRE Corporation, Bedford, MA.

Crothers, C.G., and Lipner, S.B., "An Approach to Defining Computer Security Requirements for Automated Military Command and Information Systems", MTR-2165, The MITRE Corporation, Bedford, MA, July 1971.

Davida, G., (editor), Proceedings of Symposium on Security and Privacy, IEEE Technical Committee on Security and Privacy, April 1980.

Denning, D.E., "Data Security", Computing Surveys, Vol. II, No. 3, September 1979.

DeWolf, J.B., and Szulewski, P.A., (ed.), "Final Report of the 1979 Summer Study on Air Force Computer Security", R-1326, The Charles Stark Draper Laboratory, Inc., Cambridge, MA, October 1979.

Graham, R.M., "Protection in an Information Processing Utility", Communications of the ACM, Vol. 11, No. 5, May 1968, pp.365-369.

Harrison, M.A., Ruzzo, W.L., and Ullman, J.D., "Protection in Operating Systems", Communications of the ACM, Vol. 19, No. 8, August 1976, pp.461-471.

Hermann, R.J., "DoD Requirements for the 80's", Proceedings of the NOVA AFCEA Computer and Communications Security Conference, April 1978.

Hoffman, L.J., Modern Methods for Computer Security and Privacy, Prentice-Hall, Inc., Englewood Cliffs, NJ, 1977.

Jones, A.K., "Protection in Programmed Systems", Ph.D Thesis, Carnegie-Mellon University, 1973.

Jones, A.K., and Wulf, W.A., "Towards the Design of Secure Systems", Software Practice and Experience, Vol. 5, 1975, pp.321-336.

Kline, C.S., "Protection Mechanisms for Operating Systems and Networks", PhD Thesis, UCLA Computer Science Department, 1979.

Lampson, B.W., "Protection", Proceedings of 5th Annual Conference on Information Science and Systems, Princeton, March 1971, pp.437-443.

Lee, T.M.P.; et al, "Audit and Evaluation of Computer Security II: System Vulnerabilities and Controls", NBS Special Publication 500-57, Section VIII, National Bureau of Standards, Gaithersburg, MA.

Linden, T.A., "Operating System Structures to Support Security and Reliable Software", ACM Computing Surveys, Vol. 8, No. 4, December 1976, pp.409-445.

Lipner, S.B., "Computer Security Research and Development Requirements", MTP-142, The MITRE Corporation, Bedford, MA, February 1973.

Lipner, S.B., "Security Considerations in Information System Design", NBS Special Publication 404, Privacy and Security in Computer Systems, National Bureau of Standards, Gaithersburg, MD, September 1974.

Martin, J., Security, Accuracy, and Privacy in Computer Systems, Prentice-Hall, Inc., Englewood Cliffs, NJ, 1973.

Millen, J.K., "Operating System Security Verification", M79-223, The MITRE Corporation, Bedford, MA, September 1979.

Needham, R.M., "Protection Systems and Protection Implementation", Proceedings of 1972 FJCC, Vol. 41, AFIPS Press, Montvale, NJ, 1972, pp. 571-578.

Rhode, R.D., and Lipner, S.B., "Summary of 1974 ESD Computer Security Developments", MCI-75-1, The MITRE Corporation, Bedford, MA, February 1974.

Richardson, M.H., "A Design Approach to Secure Timesharing Systems", MCI-74-4, Electronic Systems Division, L.G. Hanscom Field, Bedford, MA, April 1974.

Rotenberg, L.J., "Making Computers Keep Secrets", MAC-TR-115, MIT, Cambridge, MA, February 1975.

Saltzer, J.H., and Schroeder, M.D., "The Protection of Information in Computer Systems", Proceedings of the IEEE, Vol. 63, No. 9, September 1976, pp. 1278-1308.

Schell, R.R., Downey, P.J., and Popek, G.J., "Preliminary Notes on the Design of Secure Military Computer Systems", MCI-73-1, Electronic Systems Division, L.G. Hanscom Field, Bedford, MA, January 1973.

Schell, R.R., "Computer Security: The Achilles' Heel of the Electronic Air Force", Air War College Research Report RR-468, Naval Postgraduate School, Monterey, CA, April 1978.

Shankar, K.S., "The Total Computer Security Problem: An Overview", IEEE COMPUTER, Vol. 10, No. 6, June 1977, pp. 50-62.

Tangney, J.D., "History of Protection in Computer Systems", MTR-3999, The MITRE Corporation, Bedford, MA, 15 July 1980.

Walker, S.T., "The Advent of Trusted Computer Systems", Proceedings of the 1980 National Computer Conference (NCC), Anaheim, CA, May 19-22, 1980, pp. 655-665.

Ware, Willis H., (ed.), "Security Controls for Computer Systems", Report of Defense Science Board Task Force on Computer Security, The RAND Corporation, Santa Monica, CA, Reissued October 1979.

"ADP Security Manual", Department of Defense Manual 5200.28-M, January 1973.

"AFIPS 1974 System Review Manual on Security", American Federation of Information Processing Societies, AFIPS Press, Montvale, NJ, July 1974.

"Automated Systems Security", Army Regulations AR 380-380. Revised October 14, 1977.

"Challenges of Protecting Personal Information In An Expanding Federal Computer Network Environment", LCD-76-102, Report to the Congress of the United States by the Comptroller General, April 28, 1978.

"Computer System Security Requirements", Electronic Systems Division (AFSC), L.G. Hanscom Field, Bedford, MA, MCI-74-8, August 1974.

Department of Defense, AFDSCR-171-1, August 1974.

"ESD 1974 Computer Security Development Summary", MCI-75-1, Air Force Electronic Systems Division (AFSC), L.G. Hanscom Field, Bedford, MA, December 1974.

"Industrial Security Manual for Safeguarding Classified Information", DOD 5220.22M, revised April, 1980.

"Security Requirements for Automatic Data Processing (ADP) Systems", Department of Defense Directive 5200.28, December 1972, revised April 1978.

"Security Requirements for Automatic Data Processing Systems (ADPS)", Department of the Air Force, AFR 300-8, June 1974.

ABSTRACT/MATHEMATICAL MODELS FOR SECURITY

Bell, D.E., and LaPadula, L.J., "Secure Computer Systems", ESD-TR-73-278, Volume I-III, The MITRE Corporation, Bedford, MA, November 1973 - June 1974.

Bell, D.E., and LaPadula, L.J., "Computer Security Model: Unified Exposition and Multics Interpretation", ESD-TR-75-306, The MITRE Corporation, Bedford, MA, June 1975, (AD A023588).

Biba, K.J., "Integrity Considerations for Secure Computer Systems", ESD-TR-76-372, Electronic Systems Division, AFSC, Hanscom AFB, MA, April 1977, (AD A039324).

DeMillo, R.A., Dobkin, D.P., Jones, A.K., and Lipton, R.J., (ed.)
Foundations of Secure Computation, Academic Press, 1978.

Feiertag, R.J., Levitt, K.N., and Robinson, L., "Proving Multilevel Security of a System Design", Proceedings of the ACM Sixth Symposium on Operating Systems Principles, November 1977, pp.57-65.

Furtek, F.C., "A Theory of Constraints", M78-204, The MITRE Corporation, Bedford, MA, November 1977.

Furtek, F.C., "Constraints", M78-205, The MITRE Corporation, Bedford, MA, December 1977.

Graham, R.M., Denning, P.J., "Protection--Principles and Practice", Proceedings of the 1972 SJCC, Vol. 40, AFIPS Press, Montvale, NJ, 1972, pp.417-429.

Popek, G.J., "Access Control Models", Ph.D. Thesis, Harvard University, Cambridge, MA, ESD-TR-73-106, February 1973, (AD 761807).

Snyder, L., "Formal Models of Capability-based Protection Systems", Technical Report 151, Department of Computer Science, Yale University, New Haven, CO, April 1979.

Walter, K.G., et al., "Primitive Models for Computer Security", Case Western Reserve University, Cleveland, Ohio, ESD-TR-74-117, January 1974, (AD 778467).

SECURITY KERNEL CONCEPTS

Ames, S.R., "The Design of a Security Kernel", M75-212, The MITRE Corporation, Bedford, MA, February 1975.

Burke, E.L., "Synthesis of A Software Security System", MTP-154, The MITRE Corporation, Bedford, MA, August 15, 1974.

Nibaldi, G.H., "Specification of a Trusted Computing Base (TCB)", M79-228, The MITRE Corporation, Bedford, MA, November 30, 1979.

Popek, G., and Kline, C.S., "A Verifiable Protection System", 1975 International Conference on Reliable Software, Los Angeles, CA, April 1975.

Popek, G.J., and Kline, C.S., "Issues in Kernel Design", Proceedings of the 1978 NCC, Vol. 47, AFIPS Press, Montvale, NJ, June 1978, pp.1079-1086.

Popek, G.J., and Farber, D.A., "A Model for Verification of Data Security in Operating Systems", Communications of the ACM, Vol. 21, No. 9, September 1978, pp.737-749.

Schell, R.R., "Effectiveness: The Reason for a Security Kernel - A Panel Discussion", Proceedings of the 1974 NCC, Vol. 43, AFIPS Press, Montvale, NJ, 1974, pp.975-976.

Schiller, W.L., "Design of a Security Kernel for the PDP-11/45", ESD-TR-73-294, The MITRE Corporation, Bedford, MA, December 1973.

Schiller, W.L., "The Design and Specification of a Security Kernel for the PDP-11/45", ESD-TR-75-69, The MITRE Corporation, Bedford, MA, May 1975, (AD A011712).

Schiller, W.L., Withington, P.T., and Woodward, J.P.L., "Design and Abstract Specification of a Multics Security Kernel", ESD-TR-77-259, Volumes I and II, The MITRE Corporation, Bedford, MA.

Schiller, W.L., "The Design and Abstract Specification of a MULTICS Security Kernel", MTR-3294, Vol. I, The MITRE Corporation, Bedford, MA, January 26, 1977.

Urban, M., "A Policy Manager for UCLA Secure UNIX", Masters Thesis, UCLA Computer Science Department, Los Angeles, CA, 1979.

Walter, K.G., et al., "Structured Specification of a Security Kernel", 1975 International Conference on Reliable Software, Los Angeles, CA, 1975.

Withington, P.T., "The Design and Abstract Specification of a Multics Security Kernel", MTR-3294, Vol. II, The MITRE Corporation, Bedford, MA, September 30, 1976.

Woodward, J.P.L., "The Design and Abstract Specification of a Multics Security Kernel", MTR-3294, Vol. III, The MITRE Corporation, Bedford, MA, June 30, 1977.

Woodward, J.P.L. and Nibaldi, G.H., "A Kernel-Based Secure UNIX Design", ESD-TR-79-134, The MITRE Corporation, Bedford, MA, November 1977.

HARDWARE ARCHITECTURES FOR SECURITY

Bonneau, C.H., "Argument Addressing Mode Usage on SCOMP", Secure Communications Processor (SCOMP) Study Technical Notes, Honeywell Avionics Div., St. Petersburg, FA, August 7, 1978.

Bonneau, C.H., "SCOMP-Unique Instructions", Secure Communications Processor (SCOMP) Study Technical Notes, Honeywell Avionics Div., St. Petersburg, FL, August 8, 1978.

Burke, E.L., Price, W., White, J.C.C., "Secure Minicomputer System Architecture", Proceedings of the IEEE Compcon 74, Washington, D.C., September 1974.

Burke, E.L., Gasser, M., Schiller, W.L., "Emulating a Honeywell 6180 Computer System", RADC-TR-74-137, Rome Air Development Center, Griffis AFB, NY, June 1974.

Burke, E.L., "Secure Minicomputer Architecture", M76-224, The MITRE Corporation, Bedford, MA, October 1976.

Carnall, J.J., "The Security Protection Module (SPM)", Honeywell, Inc., Avionics Division, St. Petersburg, FL, February 1978.

Feustal, E.A., "On the Advantages of Tagged Architecture", IEEE TRANSACTIONS ON COMPUTERS, Vol. C-22, Number 7, July 1973.

Gasser, M., "Hardware Design Issues for the Provably Secure Operating System", MTR-3710, The MITRE Corporation, Bedford, MA, July 1979.

Goldberg, R.P., "Architectural Principles for Virtual Computer Systems", ESD-TR-73-105, Ph.D. Thesis, Harvard University, February 1973, (AD 772806).

Hennigan, K., "Hardware Subverter for the Honeywell 6180", ESD-TR-76-352, The MITRE Corporation, Bedford, MA, December 1976.

Hisgen, C.W., "Microcomputer Architectures for a Secure Packet Switch Design", MTR-79W00272, The MITRE Corporation, McLean, VA, December 1979.

Janson, P.A., "Using Type Extension to Organize Virtual Memory Mechanisms", MIT/LCS/TR-167, Massachusetts Institute of Technology, September 1976.

Molho, L.M., "Hardware Aspects of Secure Computing", Proceedings of the 1970 SJCC, AFIPS Press, Montvale, NJ, 1970, pp.135-141.

Rolfe, G., and Carnall, J., "Detail Specification for the Security Protection Module (SPM)", ESD-TR-76-366, Honeywell Information Systems, Incorporated, Aerospace Division, St. Petersburg, FL, September 1976.

Schroeder, M.D., and Saltzer, J.H., "A Hardware Architecture for Implementing Protection Rings", Communications of the ACM, Vol. 15, No. 3, March 1972, pp.157-170.

Smith, L., "Architectures for Secure Computer Systems", ESD-TR-75-51, The MITRE Corporation, Bedford, MA, April 1975, (AD A09221).

Tangney, J.D., "Minicomputer Architectures for Effective Security Kernel Implementations", ESD-TR-78-170, The MITRE Corporation, Bedford, MA, October 1978.

Tangney, J.D., "Hardware Survey for Provably Secure Operating System", MTR-3713, The MITRE Corporation, Bedford, MA, July 1979.

SPECIFICATION/VERIFICATION CONCEPTS AND ISSUES

Ames, S.R., "File Attributes and their Relationship to Computer Security", ESD-TR-74-191, Case Western Reserve University, Cleveland, OH, June 1974.

Ames, S.R., and Millen, J.K., "Interface Verification for a Security Kernel", System Reliability and Integrity, Volume 2, Infotech International, Maidenhead, U.K., 1978, pp.1-21.

Ames, S.R., and Keeton-Williams, J.G., "Demonstrating Security for Trusted Applications on a Security Kernel Base", Proceedings of Symposium on Security and Privacy, IEEE Technical Committee on Security and Privacy, April 1980.

Bell, D.E., and Burke, E.L., "A Software Validation Technique for Certification, Part I: The Methodology", The MITRE Corporation, Bedford, MA, ESD-TR-75-54, Volume I, April 1975.

Berson, T.A., "Elements of Formal Specification Style", WDL-TR7968, Ford Aerospace and Communications Corporation, Palo Alto, CA, May 1969.

Boyer, R.S., and Moore, J., A Computational Logic, ACM Monograph Series, Academic Press, New York, 1979.

DeMillo, R.A., Lipton, R.J., and Perlis, A.J., "Social Processes and Proofs of Theorems and Programs", Communications of the ACM, Vol. 22, No. 5, May 1979, pp.271-280.

Dennis, J.B., and VanHorn, E.C., "Programming Semantics for Multi-programmed Computations", Communications of the ACM, Vol. 9, No. 3, March 1966, pp.143-155.

Floyd, R.W., "Assigning Meaning to Programs", Mathematical Aspects of Computer Science, Vol. 19, American Mathematics Society, Providence, RI, 1967, pp.19-32.

Furtek, F.C., "A Validation Technique for Computer Security Based on the Theory of Constraints", ESD-TR-78-182, The MITRE Corporation, Bedford, MA, December 1978.

Gerhart, S.L., and Wile, D.S., "Preliminary Report on the Delta Experiment", Specifications of Reliable Software, IEEE Catalog No. 79 CH 1401-9C, April 1979, pp. 198-211.

Guttag, J.V., Horowitz, E., and Musser, D.R., "Some Extensions to Algebraic Specification", Language Design for Reliable Software, ACM SigPlan Notices, March 1977.

Guttag, J.V., "Abstract Data Types and the Development of Data Structures", Communications of the ACM, Vol. 20, June 1977, pp.397-404.

Guttag, J.V., and Horning, J.J., "The Algebraic Specification of Abstract Data Types", Acta Informatica, Vol. 10, 1978, pp.27-52.

Guttag, J.V., Horowitz, E., and Musser, D.R., "Abstract Data Types and Software Validation", Communications of the ACM, Vol. 21, December 1978, pp. 1048-1064.

Hoare, C.A.R., "An Axiomatic Basis for Computer Programming", Communications of the ACM, Vol. 12, No. 10, October 1969, pp.576-583.

Hoare, C.A.R., "Proof of a Program: FIND", Communications of the ACM, Vol. 14, No. 1, January 1971, pp.39-45.

Hoare, C.A.R., "Proof of Correctness of Data Representations", Acta Informatica, Vol. I, No. 4, 1972, 271-281.

Kallman, D.K., Millen, J.K., "Security Kernel Verification Techniques: Algorithmic Presentation", ESD-TR-78-123, The MITRE Corporation, Bedford, MA, April 1978, (AD-A054098).

Karp, R.A., and Luckham, D.C., "Verification of Fairness in an Implementation of Monitors", Proceedings of Conference on Software Engineering, October 1976, pp.40-46.

Kemmerer, R., "Verification of the UCLA Security Kernel: Abstract Model, Mapping, Theorem Generation and Proof", PhD Thesis, UCLA Computer Science Department, 1978.

Luckham, D.C., "Program Verification and Verification-Oriented Programming", Information Processing 77, IFIP, North Holland, 1977, pp.783-793.

Luckham, D.C., and Suzuki, N., "Automatic Program Verification IV: Proof of Termination Within a Weak Logic of Programs", Acta Informatica, Vol. 8, 1977, pp.21-36.

Millen, J.K., "Security Kernel Validation in Practice", Communications of the ACM, Vol. 9, No. 5, May 1976, pp.243-250.

Millen, J.K., "Formal Specifications for Security", Symposium Proceedings: Trends and Applications 1977, Computer Security and Integrity, Gaithersburg, MD, May 1977, (IEEE 77 CH 1204-7 C).

Morris, J.H., Jr., and Weybreit, B., "Subgoal Induction", Communications of the ACM, Vol. 20, No. 4, April 1977, pp.209-222.

Nakajima, R., Honda, M., Nakahara, H., "Hierarchical Program Specification and Verification - a Many-sorted Logical Approach", Acta Informatica, Vol. 14, No. 2, August 1980, pp.135-156.

Owicki, S., and Gries, D., "An Axiomatic Proof Technique for Parallel Programs I", Acta Informatica, Vol. 6, 1976, pp.319-340.

Parnas, D.L., "A Technique for Software Module Specification with Examples", Communications of the ACM, Vol. 15, No. 5, May 1972, pp.330-336.

Parnas, D.L., "A Technique for the Specification of Software Modules with Examples", Communications of the ACM, December 12, 1972, p.1053.

Polak, W., "An Exercise in Automatic Program Verification", IEEE Transactions on Software Engineering, Vol. SE-5, No. 5, April 1979, pp.453-458.

Robinson, L., and Holt, R.C., "Formal Specifications for Solutions to Synchronization Problems", Computer Science Laboratory, SRI International, Menlo Park, CA, 1975.

Robinson, L., et al., "On Attaining Reliable Software for a Secure Operating System", Proceedings of the 1975 International Conference on Reliable Software, Los Angeles, CA, April 1975.

Robinson, L., Levitt, K.N., Neumann, P.G., and Saxena, A.R., "A Formal Methodology for the Design of Operating System Software", Current Trends in Programming Methodology, R. T. Yeh ed., Vol. 1, Prentice-Hall, Englewood Cliffs, NJ, April 1977.

Robinson, L., and Levitt, K.N., "Proof Techniques for Hierarchically Structured Programs", Communications of the ACM, Vol. 20, No. 4, April 1977.

Saxena, A.R., and Brecht, T.H., "A Structured Specification of a Hierarchical Operating System", The 1975 International Conference on Reliable Software, Los Angeles, CA, April 1975, pp.310-318.

Walker, B.J., "Verification of the UCLA Security Kernel: Data Defined Specifications", Masters Thesis, UCLA Computer Science Department, Los Angeles, CA, November 1977.

Walter, K.G., Ogden, W.F., et al., "Initial Structured Specification for an Uncompromisable Computer Security System", ESD-TR-75-82, Case Western Reserve University, Cleveland, OH, July 1975.

SPECIFICATION/VERIFICATION SYSTEMS

Boyer, R.S., and Strother-Moore, J., A Formal Semantics for the SRI Hierarchical Development Methodology, Computer Science Laboratory, SRI International, Menlo Park, CA, November 1978.

Boyer, R.S., and Strother-Moore, J., "A Theorem-Prover for Recursive Functions: A User's Manual", Technical Report CSL-91, Computer Science Laboratory, SRI International, Menlo Park, CA, June 1979.

Chehey, M.H., Huff, G.A., Gasser, M., Millen, J.K., "Secure System Specification and Verification: Survey of Methodologies", MTR-3904, The MITRE Corporation, Bedford, MA, February 20, 1980.

Craig, D.H., and Pase, W.J., "A Preliminary Overview of Automatic Verification Systems", 5605-80-1, I.P. Sharp Associates Ltd., Ottawa, Canada, April 1980.

Feiertag, R.J., "A Technique for Proving Specifications are Multilevel Secure", Technical Report CSL-109, Computer Science Laboratory, SRI International, Menlo Park, CA, January 1980.

Gerhart, S.L., "Observations on AFFIRM", (Prepared for the Air Force Summer Study on Computer Security), 26 June 1979.

Gerhart, S.L., "Experience with the MITRE Toy Security Kernel", AFFIRM MEM-2-3LG, USC-ISI, January 15, 1980.

Gold,B.D., Schaefer,M., Thompson,D., "KVM/370 Formal Security Policy", System Development Corporation, Santa Monica, CA, May 21, 1978.

Good,D.I., London,R.L., Bledsoe,W.W., "An Interactive Program Verification System", IEEE Transactions on Software Engineering, SE-1, No. 1, March 1975, pp.59-67.

Good,D.I., et al., "Gypsy 2.0", ISCSA-CMP-10, The University of Texas, Austin, TX, July 1978.

Good,D.I., Cohen,R.M., and Hunter,L.W., A Report on the Development of Gypsy, ICSCA-CMP-13, The University of Texas at Austin, October 1978.

Good,D.I., Cohen,R.M., Hoch,C.G., Hunter,L.W., and Hare,D.F., "Report on the Language Gypsy: Version 2.0," ICSCA-CMP-10, The University of Texas, Austin, TX, September 1978.

Good,D.I., Gypsy 2.0 Programming System 6.0 Users' Manual, Certifiable Minicomputer Project, The University of Texas, Austin, TX, (to be published).

Good,D.I., Gypsy 2.0 Programming System 6.0 Implementation Variances, The University of Texas, Austin, TX.

Levitt,K.N., Robinson,L., and Silverberg,B.A., The HDM Handbook, Vol. I-III, Computer Science Laboratory, SRI International, Menlo Park, CA, June 1979.

Luckham,D.C., et al., "Stanford Pascal Verifier User Manual", Report No. STAN-CS-79-731, Stanford University, Computer Science Department, Palo Alto, CA, 1979.

Luckham,D.C., and Suzuki,N., "Verification of Array, Record, and Pointer Operations in Pascal", TOPLAS, Vol. 1, No. 2, October 1979, pp.226-244.

Moriconi,M.S., "A System for Incrementally Designing and Verifying Programs", ICSCA-CMP-9, The University of Texas, Austin, TX, December 1977.

Musser,D.R., "Abstract Data Type Specification in the AFFIRM System", Specifications of Reliable Software, IEEE Catalog No. 79 CH 1401-9C, April 1979, pp.47-57.

Neumann,P.G., Feiertag,R.J., Levitt,K.N., and Robinson,L., "Software Development and Proofs of Multilevel Security", IEEE, Proceedings of 2nd International Conference on Software Engineering, 1976.

Neumann, P.G., "A Position Paper on Attaining Secure Systems: A Summary of a Methodology and Its Supporting Tools", U. S. Army Automation Security Workshop, Leesburg, VA, December 1978, pp.26-39.

Roubine, O., and Robinson, L., SPECIAL Reference Manual, SRI International, Menlo Park, CA, January 1977.

Scheid, J.F., INA JO: A Verification Methodology (Extended Abstract), June 1979 (Prepared for the 1979 Air Force Summer Study on Computer Security).

Walker, B.J., Kemmerer, and Popek, G.J., "Specification and Verification of the UCLA Unix Security Kernel", Communications of the ACM, Vol. 23, No. 2, February 1980, pp.118-131.

AFFIRM System Documentation, USC Information Sciences Institute, November 30, 1979: AFFIRM Reference Manual (Thompson, D.H., ed.), AFFIRM Collected Papers, AFFIRM Type Library (Gerhart, S.L., ed.), AFFIRM Annotated Transcript (Gerhart, S.L., ed.), and AFFIRM User's Guide (Gerhart, S.L., ed.).

INFORMATION FLOW

Andrews, G.R., Reitman, R.T., "An Axiomatic Approach to Information Flow In Parallel Programs", TR 78-361, Cornell University, Ithaca, NY.

Denning, D.E., "Secure Information Flow in Computer Systems", Purdue University, May 1974.

Denning, D.E., "A Lattice Model of Secure Information Flow", Communications of the ACM, Vol. 19, No. 5, May 1976, pp.236-243.

Denning, D.E., and Denning, P.J., "Certification of Programs for Secure Information Flow", Communications of the ACM, Vol. 20, No. 7, July 1977, pp.504-513.

Denning, D.E., "Embellishments to the Note on Information Flow into Arrays", ACM Software Engineering Notes, Vol. 5, No. 2, April 1980, pp.15-16.

Gasser, M., Millen, J.K., Wilson, W.F., "A Note on Information Flow Into Arrays", ACM Software Engineering Notes, Vol. 5, No. 1, January 1980, pp.28-29.

Lampson, B.W., "A Note on the Confinement Problem", Communications of the ACM, Vol. 16, No. 10, October 1973, pp.613-615.

Lipner, S.B., "Comment on the Confinement Problem", ACM Operating Systems Review, Vol. 9, No. 5, May 1975, pp.192-196.

Liu, L., "On Security Flow Analysis in Computer Systems", Preliminary Report, The MITRE Corporation, Bedford, MA, 1980.

Millen, J.K., "Example of a Formal Flow Violation", COMPSAC 78, Chicago, IL, November 1978, (IEEE 78 CH 1338-3 C).

Schaefer, M., Gold, B., Linde, R., and Scheid, J., "Program Confinement in KVM/370", Proceedings of 1977 ACM, October 1977, pp.404-410.

Withington, P.T., "Data-flow Analysis as an Aid to Verification", MTR-3632, The MITRE Corporation, Bedford, MA, September 1978.

PROTECTION IN PROGRAMMING LANGUAGES

Ambler, A.L., Hoch, C., "A Study of Protection in Programming Languages", ICSCA, Austin, TX, December 1976.

Ambler, A.L., "Gypsy: Language for Specification and Implementation of Verifiable Programs", ICSCA-CMP-2, Austin, TX, January 1977.

Lampson, B.W., Horning, J.J., London, D.L., Mitchell, J.G., and Popek, G.J., "Report On The Programming Language Euclid", Xerox Research Center, University of Toronto, USC-ISI and UCLA respectively, December 1976.

London, R.L., et al., "The Programming Language Euclid", MOL Bull., Nb 3, IFIP wg. 2.4, 1976.

Wirth, N., "The Programming Language PASCAL", ACTA Informatica, Vol. 1, 1971, pp.35-63.

Wirth, N., "An Assessment of the Programming Language PASCAL", IEEE Transactions on Software Engineering, Vol. 1, No. 2, June 1975, pp.192-198.

Wirth, N., "Modula: A Language for Modular Multiprogramming", Software Practices and Experience, Vol. 7, 1977, pp.3-35.

Wulf, W.A., "Alphard: Towards a Language to Support Structured Programming", Department of Computer Science, Carnegie-Mellon University, Pittsburg, PA, April 1974.

OPERATING SYSTEMS

Adleman, N., "Effects of Producing a Multics Security Kernel", ESD-TR-76-130, Honeywell, Inc., McLean, VA, October 1975, (AD A031220).

Adleman, N., Ziller, R., Whitmore, J., "Multics Security Integration Requirements", ESD-TR-76-354, Honeywell, Inc., McLean, VA, March 1976.

Adleman, N., "Security Kernel Evaluation for Multics & Secure Multics Design, Development, and Certification", ESD-TR-76-298, Honeywell, Inc., McLean, VA, August 1976.

Adleman, N., "Engineering Investigations in Support of Multics Security Kernel Software Development", ESD-TR-77-17, Honeywell, Inc., McLean, VA, October 1976.

Ames, S.R., "A Security Compliance Study of the AF Data Services Center Multics System", The MITRE Corporation, Bedford, MA, June 30, 1975.

Ames, S.R., Plummer, W.W., (Bolt Beranek and Newman), "TENEX Security Enhancements", MTR-3217, The MITRE Corporation, Bedford, MA, April 1976.

Ames, S.R., Kallman, D.K., "Multics Security Kernel Validation: Proof Description", ESD-TR-78-148, Vol. 1, The MITRE Corporation, Bedford, MA, July 1978.

Anderson, J.P., "Multics Evaluation", ESD-TR-73-276, Hanscom AFB, Bedford, MA, October 1973, (AD 777593).

Berson, T.A., "Type Extension in KSOS", WDL-TR7967, Ford Aerospace and Communications Corporation, Palo Alto, CA, January 1979.

Berson, T.A., and Barksdale, G.L., "KSOS: Development Methodology for a Secure Operating System", Proceedings of 1979 NCC, Vol. 48, AFIPS Press, New York, June 1979, pp. 365-371.

Book, E., Gold, B., Schaefer, M., Ward, P., "KVM/370 Kernel and Trusted Process Listings", System Development Corporation, Santa Monica, CA, May 21, 1978.

Bratt, R.G., "Minimizing the Naming Facilities Requiring Protection in a Computing Utility", Massachusetts Institute of Technology, Cambridge, MA, ESD-TR-76-161, September 1975.

Burke, E.L., "Concepts of Operation for Handling I/O in a Computer at the Air Force Data Service Center (AFDSC)", ESD-TR-74-113, The MITRE Corporation, Bedford, MA, April 1973, (AD 780520).

Clark, D.D., "An Input/Output Architecture for Virtual Memory Computer Systems", MIT Project MAC, Cambridge, MA, MAC-TR-117, January 1974, (AD 774738).

Conway, R.W., et al., "On the Implementation of Security Measures in Information Systems", Communications of the ACM, Vol. 15, No. 4, April 1972.

Delashmuth, L.F., Jr., "Steps Toward a Provably Secure Operating System", Spring '79 COMPCOM, Digest of Papers, February-March 1979, pp.40-43.

England, D.M., "Capability Concept Mechanism and Structure in System 250", Proc. IRIA International Workshop on Protection in Operating Systems, Institut de Recherche d'Informatique et de Automatique, France, 1974, pp.63-82.

Evans, L., "Address Mapping and the Control of Access in an Interactive Computer", Spring Joint Computer Conference 1967, AFIPS Press, Montvale, NJ, 1967.

Feiertag, R.J., Levitt, K.N., Melliard-Smith, P.M., "Tactical Executive (TACEXEC): A Real-Time Secure Operating System for Tactical Operations", SRI International, Menlo Park, CA, Final Report for U.S. Army Electronics Command, July 1979.

Feiertag, R.J., and Neumann, P.G., "The Foundations of a Provably Secure Operating System (PSOS)", Proceedings of 1979 NCC, Volume 48, AFIPS Press, Montvale, NJ, June 1979, pp.329-334.

Ferris, J., "An Extensible Structure for Protected Systems Design", THE COMPUTER JOURNAL, Vol. 19, No. 4, September 1974.

Gasser, M., et al., "Test Procedures for Multics Security Enhancements - Final Version", ESD-TR-76-164, The MITRE Corporation, Bedford, MA, June 1976.

Gold, B.D., et al., "The Feasibility of Redesigning VM/370 Into a Kernelized System", System Development Corporation, Santa Monica, CA, May 21, 1977.

Gold, B.D., et al., "Kernelized VM/370 Security Policy", System Development Corporation, Santa Monica, CA, May 21, 1977.

Gold,B.D., "Design Tradeoffs for Closure of Leakage Paths in KVM/370", TM-6062/220/80, System Development Corporation, Santa Monica, CA, April 1978.

Gold,B.D., et al, "A Security Retrofit of VM/370," Proceedings of the 1979 NCC, Vol. 48, AFIPS Press, Montvale, NJ, 1979, pp.335-344.

Harper,S.R., "Computer Program Specification for the Security Kernel for the PDP-11/45", The MITRE Corporation, Bedford, MA, ESD-TR-76-165, Volumes I and II, March 1976.

Honeywell Information Systems, "Design for Multics Security Enhancements", ESD-TR-74-176, L.G.Hanscom Field, Bedford, MA, 1974.

Janson,P.A., "Removing the Dynamic Linker from the Security Kernel of a Computer Utility", MIT Project MAC, Cambridge, MA, MAC-TR-132, June 1974.

Karger,P.A., "Non-discretionary Access Control for Decentralized Computing Systems", S.M.Thesis, M.I.T. Dept. of Electrical Engineering and Computer Science, May 1977.

Karger,P.A., "Non-discretionary Security for Decentralized Computer Systems", Proceedings of 1978 Trends and Applications: Distributed Processing, IEEE Press, May 1978, pp.33-39.

Lampson,B.W., "Dynamic Protection Structures", Proceedings of 1969 FJCC, Vol. 35, AFIPS Press, Montvale, NJ, 1969, pp.27-38.

Lampson,B.W., and Sturgis,H.E., "Reflection on an Operating System Design", Communications of the ACM, Vol. 19, No. 5, May 1976, pp.251-266.

Larkins,J.A., "Computer Program Development Specification for a Secure File Management and Operating System for a FDP-11/45", The MITRE Corporation, Bedford, MA.

Lipner,S.B., "MULTICS Security Evaluation: Results and Recommendations", MTR-3261, Vol. I, The MITRE Corporation, Bedford, MA, October 1978.

McCauley,E.J., and Drongowski,P., "KSOS: Design of a Secure Operating System", Proceedings of the 1979 NCC, Vol. 48, AFIPS Press, Montvale, NJ, June 1979, pp.345-354.

McCauley,E.J., et al, "KSOS: Design of a Secure Operating System", Ford Aerospace and Communications Corporation, Palo Alto, CA.

McCauley,E.J., "Update on the Kernelized Secure Operating System", EASCOM '80 Record, September 1980.

Morris, R., and Thompson, K., "Password Security - A Case History", Bell Telephone Laboratories, Inc., Murray Hill, NJ, April 1978.

Needham, R.M., and Walker, R.D.H., "The Cambridge CAP Computer and its Protection System", ACM Operating Systems Review, Vol II, No. 5, Proceedings of 6th Symposium on Operating System Principles, November 1977, pp.1-10.

Neumann, P.G., Boyer, R.S., Feiertag, R.J., Levitt, K.N., and Robinson, L., "A Provably Secure Operating System: The System, It's Applications, and Proofs", Technical Report, Computer Science Laboratory, SRI International, Menlo Park, CA, February 1978.

Organick, E.I., "The MULTICS System: An Examination of its Structure", MIT Press, Cambridge, MA, 1972.

Popek, G.J., et al., "UCLA Data Secure UNIX - A Securable Operating System: Software Architecture", SDPS-78-003, University of California, Los Angeles, California, August 1978.

Popek, G.J., et al., "UCLA Secure UNIX", Proceedings of the 1979 NCC, Vol. 48, AFIPS Press, New York, June 1979, pp.355-364.

Price, W.R., "Implications of a Virtual Memory Mechanism for Implementing Protection in a Family of Operating Systems", Ph.D Thesis, Carnegie-Mellon University, Pittsburgh, PA, June 1973.

Redell, D.D., "Naming and Protection in Extendable Operating Systems", Ph.D Thesis, MIT, Cambridge, MA, 1974, Project MAC Report MAC-TR-140.

Rhode, R.D., "Secure Multilevel Virtual Computer Systems", ESD-TR-74-370, The MITRE Corporation, Bedford, MA, June 1974, (AD A007059).

Saltzer, J.H., "Protection and Control of Information Sharing in MULTICS", Communications of the ACM, Vol. 17, No. 7, July 1974.

Schaefer, M., "KVM/370: Its Evolution and Status", EASCON '80 Record, September 1980.

Schroeder, M.D., "Co-operation of Mutually Suspicious Subsystems in a Computer Utility", Ph.D Thesis, M.I.T., Cambridge, MA, 1972, Project MAC Report MAC-TR-104.

Schroeder, M.D., "Security Kernel Evaluation for Multics (Interim Report)", ESD-TR-75-95, M.I.T., Cambridge, MA, September 1975.

Schroeder, M.D., Clark, D.D., Saltzer, J.H., "The Multics Kernel Design", Proceedings of the 6th Symposium on Operating System Principles, ACM SIGOPS, Vol. 11, No. 5, W. Lafayette, Indiana, November 1977.

Snyder, L., "On the Synthesis and Analysis of Protection Systems", Proceedings of the 6th Symposium on Operating System Principles, ACM SIGOPS, Vol. 11, No. 5, W. Lafayette, Indiana, November 1977, pp.141-150.

Spier, M.J., "A Model Implementation for Protection Domains", International Journal of Computer and Information Sciences, Vol. 2, No. 3, 1973, pp.201-229.

Stern, J., "Multics Security Kernel Top-Level Specification", ESD-TR-76-368, Electronic Systems Division, L.G. Hanscom Field, MA, November 1976.

Weissman, C., "Security Controls in the ADEPT-50 Time-Sharing System", Proceedings of the 1969 FJCC, Vol. 35, AFIPS Press, Montvale, NJ, 1969, pp.119-133.

White, J.C.C., "Design of a Secure File Management System", ESD-TR-75-57, The MITRE Corporation, Bedford, MA, June 1974, (AD A010590).

Whitmore, J.C., et al., "Design for Multics Security Enhancements", ESD-TR-74-176, Honeywell Information Systems, 1974, (AD A030801).

Wulf, W., et al., "HYDRA: The Kernel of a Multiprocessor Operating System", Communications of the ACM, Vol. 17, No. 41, 1972.

"Kernelized Secure Operating System--System Specification", TRW, Redondo Beach, CA, April 1978.

"KSOS Implementation Plan", WDL-TR7799, Ford Aerospace and Communications Corporation, Palo Alto, CA, March 1978.

"KSOS Maintenance and Support Plan", WDL-TR7810, Ford Aerospace and Communications Corporation, Palo Alto, CA, March 1978.

"KSOS Non-Kernel Security-Related Software Computer Program Development Specification (Type B5)", WDL-TR7934, Ford Aerospace and Communications Corporation, Palo Alto, CA, September 1978.

"KSOS Security Kernel Computer Program Development Specification (Type B5)", WDL-TR7932, Ford Aerospace and Communications Corporation, Palo Alto, CA, September 1978.

"KSOS System Specification (Type A)", WDL-TR7808, Revision 1, Ford Aerospace and Communications Corporation, Palo Alto, CA, July 1978.

"KSOS UNIX Emulator Computer Program Development Specification (Type B5)", WDL-TR7933, Ford Aerospace and Communications Corporation, Palo Alto, CA, September 1978.

"KSOS Verification Plan", WDL-TR7809, Ford Aerospace and Communications Corporation, Palo Alto, CA, March 1978.

"Secure Minicomputer Operating System (KSOS) System Specification (Type A)", WDL-TR7808, Rev. 1, Ford Aerospace and Communications Corporation, Palo Alto, CA, July 1978.

"Secure Minicomputer Operating System (KSOS) - Computer Program Development Specification (Type B-5)", Department of Defense Kernelized Secure Operating System. Ford Aerospace and Communications Corporation, WDL-7932, September 1978.

TRUSTED NETWORKS/COMMUNICATION PROCESSORS

Bell, D.E., Fiske, R.S., Gasser, M., Tasker, P.S., "Secure On-Line Processing Technology - Final Report", ESD-TR-74-186, The MITRE Corporation, Bedford, MA, August 1974, (AD 785387).

Bersoff, E.H., Wilson, S.H., "Selection Criteria for Secure Military Message Processing System", Naval Research Lab, Washington, DC, August 1977.

Biba, K.J., "Multilevel Secure Network Architecture", 1978 National Telecommunications Conference, December 1978.

Bilofsky, W., Nemeth, A., "Interprocess Communication Capabilities and Deficiencies in the UNIX System", Bolt Beranek & Newman, Inc., April 1977.

Bonneau, C.H., "Security Kernel Specifications for a Secure Communications Processor", ESD-TR-76-359, Honeywell, Inc., St. Petersburg, FL, September 1976.

Bonneau, C.H., "Secure Communications Processor Kernel Software (Part I)", CPG8656A1, Honeywell Inc., Avionics Division, St. Petersburg, FL, February 1980.

Bonneau, C.H., Cameron, D.B., and Lane, D.S., "Secure Communications Processor Kernel Software (Part II)", CPG8656A1, Honeywell Inc., Avionics Division, St. Petersburg, FL, February 1980.

Branstad, D.K., ed., Computer Security and the Data Encryption Standard, NBS Special Publication 500-27, NBS, Gaithersburg, MD, February 1978.

Branstad, D.K., "Data Protection Through Cryptography", Dimensions NBS, Gaithersburg, MD, September 1975, pp.195-215.

Broadbridge, R., and Makota, J., "Secure Communications Processor Specification", ESD-TR-76-351, Honeywell Information Systems, Incorporated, Federal Systems Division, McLean, VA, June 1976.

Cole, G.D., "Requirements for Prototype Security Mechanisms for WWMCCS Network", System Development Corporation, Santa Monica, CA, July 1975.

Cotton, I.W., Meissner, P., "Approaches to Controlling Personal Access to Computer Terminals", European Computer Conference on Communication Networks, London, England, 1975, pp. 433-452.

Denning, D.E., "Secure Personal Computing in an Insecure Network", Communications of the ACM, Vol. 22, No. 8, August 1979.

Gardella, R.S., Stevens, W., "Review and Projection of Computer Security Technology for WWMCCS", MTR-79W00067, The MITRE Corporation, McLean, Va., February 1979.

Gasser, M., "Design of a Secure Communications Processor - Volume II: Input/Output Processor", ESD-TR-72-399, The MITRE Corporation, Bedford, MA, September 1972, (AD 908133).

Gasser, M., "The Top Level Specification of a Security Kernel for the Multics Front End Processor", MTR-3269, The MITRE Corporation, Bedford, MA, October 1976.

Good, D.I., (ed.), "Constructing Verifiably Reliable and Secure Communications Processing Systems," ICSCA-CMP-6, The University of Texas, Austin, TX, January 1977.

Hinckley, C.A., and Mitchell, J., "Issues in Computer Network Security", MTR-3201, The MITRE Corporation, Bedford, MA, June 1976.

Lipner, S.B., "SATIN Computer Security", MCI-75-2, The MITRE Corporation, Bedford, MA, September 1972.

Padlipsky, M.A., "An Architecture for Secure Packet-Switched Networks", Proceedings of the Third Berkeley Workshop of Distributed Data Management and Computer Networks, Berkeley, CA, August 1978.

Padlipsky, M.A., Snow, D.W., and Karger, P.A., "Limitations of End-to-End Encryption in Secure Computer Networks", MTR-3592, The MITRE Corporation, Bedford, MA, May 1978.

Popek, G.J., and Kline, C.S., "Encryption and Secure Computer Networks", Computing Surveys, Vol. 11, No. 4, December 1979, pp. 331-356.

Sunshine, C., "Formal Techniques for Protocol Specification and Verification", Computer, Vol. 12, No. 6, September 1979.

Tasker, P.S., "Design of a Secure Communications Processor - Volume I: Overall Environment and Concept", ESD-TR-73-195, The MITRE Corporation, Bedford, MA, February 1973, (AD 761804).

Tasker, P.S., "Design of a Secure Communications Processor - Volume III: Central Processor", ESD-TR-74-181, The MITRE Corporation, Bedford, MA, June 1973, (AD 781182).

Walker, S.T., "ARPA Network Security Project", Computer Security and the Data Encryption Standard, NBS Special Publication 500-27, National Bureau of Standards, Gaithersburg, MD, February 1978.

Withington, P.T., "The Trusted Function in Secure Decentralized Processing", MTR-3892, The MITRE Corporation, Bedford, MA, September 1979.

"The Feasibility of a Secure Communications Executive for a Communications System", Electronic Systems Division (AFSC), L.G. Hanscom Field, Bedford, MA, MCI-75-10, August 1974.

TRUSTED DATABASE MANAGEMENT SYSTEMS

Ames, S.R., "User Interface Multilevel Security Issues in a Transaction-Oriented Data Base Management System", MTP-178, The MITRE Corporation, Bedford, MA, December 1976.

Codd, E.F., "A Relational Model of Data for Large Shared Data Banks", Communications of the ACM, Vol. 13, No. 6, June 1970.

Fernandez, E.B., Summers, R.C., Lang, T., Coleman, C.D., "Architecture Support for System Protection And Database Security", IEEE Transactions on Computers, Vol. 27, No. 8, August 1978, pp. 767-771.

Fernandez, E.B., and Wood, C., "The Relationship Between Operating System and Database System Security: A Survey", Proceedings of the 1977 IEEE COMPSAC Conference, pp. 453-462.

Fernandez, E.B., et al., "An Authorization Model for a Shared Data Base", ACM SIGMOD Proceedings, May 1975, pp.23-31.

Hartson, H.R., "Secure Database Management Study", U.S. Army Institute for Research in Management Information and Computer Science, December 1978.

Hinke, T.H., and Schaefer, M., "Secure Data Management System", Rome Air Development Center, Rome, NY, RADC-TR-75-266, November 1975, (AD A019201)

Kirkby, G., and Grohn, M., "On Specifying the Functional Design for a Protected DMS Tool", ESD-TR-77-140, I. P. Sharp Associates, Ltd., Ottawa, Canada, March 1977.

Mack, J.L., and Wagner, B.N., "Secure Multilevel Data Base Systems: Demonstration Scenarios", ESD-TR-76-158, The MITRE Corporation, Bedford, MA, June 1975.

Price, W.R., and Schell, R.R., "A Secure Approach to Data Base Management System Design", Electronic Systems Division, L.G. Hanscom Field, Bedford, MA, MCI-74-2, January 1974.

Rzepka, W.E., "Considerations in the Design of a Secure Data Base Management System", RADC-TR-77-9, March 1977, (AD A039169).

Schaefer, M., "On Certain Security Issues Relating to the Management of Data", The ANSI/SPARC DBMS Model, Jardine, D.A., (ed.), North-Holland Publishing Co., Amsterdam, 1977, pp.131-154.

Stonebraker, M., and Wong, E., "Access Control in a Relational Data Base Management System by Query Modification", University of California, Memorandum No. ERL-M438, May 1974.

Wagner, B.N., "Implementation of a Secure Data Management System for the Secure UNIX Operating System", MTR-3524, The MITRE Corporation, Bedford, MA, September 1977.

Wood, C., et al., "Database Security: Requirements, Policies, and Models", IBM Systems Journal, Vol. 19, No. 2, 1980, pp.229-253.

TRUSTED APPLICATIONS

Ames, S.R., and Oestreicher, D.R., "Design of a Message Processing System for a Multilevel Secure Environment", AFIPS Conference Proceedings: 1975 National Computer Conference, Vol. 47, AFIPS Press, Montvale, NJ.

Branstad, M. A., "Computer Security Application Utilizing Minis", National Bureau of Standards, Gaithersburg, MD, 1974.

Padlipsky, M.A., et al., "KSOS: Computer Network Applications", Proceedings of the 1979 NCC, Vol. 48, AFIPS Press, Montvale, NJ, June 1979, pp.373-382.

Solomon, D.J., and Withington, P.T. "A Secure Message System for the Secure Distributed Processing Project", M21-80, The MITRE Corporation, Bedford, MA, October 1980.

Stork, D.G., "Downgrading in a Secure Multilevel Computer System: The Formulary Concept", ESD-TR-75-62, The MITRE Corporation, Bedford, MA, June 1974, (AD A011696).

Tangney, J.D., Ames, S.R., and Burke, E.L., "Security Evaluation Criteria for MME Message Service Selection", MTR-3433, The MITRE Corporation, Bedford, MA, June 1977.

Tangney, J.D., "MME Security Test Procedures", MTR-3615, The MITRE Corporation, Bedford, MA, June 1978.

Wilson, S., Ames, S.R. Jr., Tangney, J.D., and Bunch, J.R., "MME Security Privacy Evaluation", MTR-3494, The MITRE Corporation, Bedford, MA, September 1977.

Woodward, J.P.L., "Applications for Multilevel Secure Operating Systems", Proceedings of the 1979 NCC, Vol. 48, AFIPS Press, Montvale, NJ, June 1979, pp.319-328.

"ACCAT Guard Computer Program Development Specification (Type B5)", ARPA-78C0323-01, LOGICON, San Diego, CA, October 1978.

PENETRATIONS

Abbott, R.P., et al., "Security Analysis and Enhancements of Computer Operating Systems", Lawrence Livermore Laboratory, Livermore, CA, NBS 76-1041, April 1976.

Attanasio, C.R., Markstein, P.W., and Phillips, R.J., "Penetrating an Operating System: A Study of VM/370 Integrity", IBM Systems Journal, Volume 15, Number 1, 1976, pp.102-116.

Bisbey, R., Hollingworth, D., "Protection Analysis: Final Report", USC/Information Science Institute, Marina del Ray, CA, April 1978.

Hebbard, B., et al., "A Penetration Analysis of the Michigan Terminal System", ACM Operating Systems Review, Vol. 14, No. 1, January 1980, pp. 7-20.

Karger, P., and Schell, R., "MULTICS Security Evaluation: Vulnerability Analysis", ESD-TR-74-193, Vol. II, Air Force/Electronic Systems Division, L. G. Hanscom Field, MA, June 1974, (AD A001120).

Konigsford, W.L., "A Taxonomy of Operating System Security Flaws", Lawrence Livermore Laboratory, Livermore, CA, UCID-17422, November 1976.

EVALUATION/CERTIFICATION

Adams, J.A., "Approach to Defining Adequate Security", Draft Report, #421, IBM Corporation, Arlington, VA, July 11, 1977.

Adams, J.A., "Computer Security Environmental Considerations", Contract MDA 903-79-C-0311, IBM Corporation, Arlington, VA, August 1979.

Nibaldi, G.H., "Proposed Technical Evaluation Criteria for Trusted Computer Systems", M79-225, The MITRE Corporation, Bedford, MA, October 1979.

Trotter, E.T., and Tasker, P.S., "Industry Trusted Computer System Evaluation Process", MTR-3931, The MITRE Corporation, Bedford, MA, May 1980.

Weissman, C., "System Security Analysis Certification: Methodology and Results", System Development Corporation, Santa Monica, CA, January 1979.

MISCELLANEOUS

Alexander, T., "Waiting for the Great Computer Rip-Off", Fortune, Vol. XC, No. 1, July 1974, pp. 142-150.

Anderson, J.P., "AF/ACS Computer Security Control Study", ESD-TR-71-395, Hanscom AFB, Bedford, MA, November 1971, (AD 521865L).

Anderson, J.P., "Computer Security Requirements: An Investigation of Computer Security Costs", Contract F19628-72-C-0198, James P. Anderson & Co., Ft. Washington, PA.

Anderson, J.P., (Tech Note #1) "Technical Issues of Computer Security at Military Airlift Command," James P. Anderson & Co., Ft. Washington, PA, June 1974.

Burke, E.L., "Auditing And Computer Security: A Technical View", The MITRE Corporation, Bedford, MA, February 1976.

Burke, E.L., "Program Management Plan for Multilevel Security", The MITRE Corporation, Bedford, MA, May 31, 1977.

Burke, E.L., Gasser, M., Lambert, D.W., "Security Aspects of Federal Prison Industries Programming Services", MTR-3560, The MITRE Corporation, Bedford, MA, March 1978.

Collins, L.B., "Computer Security Technology Planning Study", MTR-2200, The MITRE Corporation, Bedford, MA, August 1971.

Corasick, M.J., "Protection of Computer-Based Information", M75-236, The MITRE Corporation, Bedford, MA, May 1976.

Dijkstra, E.W., "The Structure of 'THE' Multiprogramming System", Communications of the ACM, Vol. 11, No. 5, May 1968, pp.341-346.

Dijkstra, E.W., A Discipline of Programming, Prentice-Hall, Englewood Cliffs, NJ, 1976.

Dolotta, T.A., Haight, R.C., and Mashey, J.R., "The Programmer's Workbench", Bell System Technical Journal, Vol. 57, No. 6, Part 2, July-August 1978, pp.2177-2200.

Engleman, C., "Audit and Surveillance of Multi-Level Computing Systems", MTR-3207, The MITRE Corporation, Bedford, MA, June 1975.

Evans, A.J., and Kantrowitz, W., "A User Authentication Scheme Not Requiring Secrecy in the Computer", Communications of the ACM, Vol. 17, No. 8, August 1974, pp.437-442.

Fagan, M.E., "Design and Code Inspection to Reduce Errors in Program Development", IBM Systems Journal, Vol. 15, No. 3, 1976, pp.182-211.

Fejfar, A., "Combining Techniques to Improve Security in Automated Entry Control", MTP-191, The MITRE Corporation, Bedford, MA, May 1978.

Ferdman, M., Lambert, D.W., Snow, D.W., "Security Aspects of Bank Card Systems", MTR-2971, Vol. 1, The MITRE Corporation, Bedford, MA, December 1974.

Frailey, D.J., et al, "Should High Level Languages be Used to Write Systems Software? - a Debate", Proceedings of the 1975 ACM Conference, Minneapolis, MN, October 1975, pp.204-211.

Gait, J., "Easy Entry: The Password Encryption Problem", National Bureau of Standards, Institute of Computer Science and Technology, Gaithersburg, MD, July 1978.

Gasser, M., "A Random Word Generator for Pronounceable Passwords", ESD-TR-75-97, The MITRE Corporation, Bedford, MA, November 1975.

Gilson, J., "Security and Integrity Procedures", Honeywell Information System, Inc., McLean, VA, July 1976.

Grohn, M.J., and Pase, W.J., "Computer Protection Modelling", 3836-1, I.P. Sharp Associates Ltd., Ottawa, Canada, May 1978.

Grohn, M.J., and Pase, W.J., "Enhancing Computer Security" 3836-2, I.P. Sharp Associates Ltd., Ottawa, Canada, September 1978.

Hoare, C.A.R., and Wirth, N., "An Axiomatic Definition of Programming Language Pascal", Acta Informatica, Vol. 2, No. 4, 1973, pp.335-355.

Hollingsworth, D., "Enhancing Computer System Security", P-5064, The RAND Corporation, Santa Monica, CA, August 1973.

Jones, A.K., Lipton, R.J., and Snyder, L., "A Linear Time Algorithm for Deciding Subject - Object Security", Proceedings of 17th Annual Foundations of Computer Science Conference, Houston, TX, 1976, pp.33-41.

Lipner, S.B., "A Minicomputer Security Control System", MTP-151, The MITRE Corporation, Bedford, MA, February 1974.

Liskov, B.H., "The Design of the Venus Operating System", Communications of the ACM, Vol. 15, No. 3, March 1972, pp.144-149.

Liskov, B.H., "A Design Methodology for Reliable Software Systems", Proceedings of the 1972 FJCC, AFIPS Press, Montvale, NJ, 1972, pp.191-199.

Liskov, B.H., "Data Types and Program Correctness", Proceedings of the 1975 NCC, AFIPS Press, Montvale, NJ, 1975, pp.285-286.

Manna, Z., and Waldinger, R., "The Logic of Computer Programming", IEEE Transactions on Software Engineering, Vol. SE-4, No. 3, May 1978, pp.199-229.

McPhee, W., "Operating System Integrity in OS/VS2", IBM Systems Journal, Vol. 13, No. 3, 1974, pp.230-252.

Mogilensky, J., "A General Security Marking Policy for Classified Computer Input/Output Material", ESD-TR-75-89, The MITRE Corporation, Bedford, MA, September 1975, (AD A016467).

Ramamoorthy, C.V., and Mo, S.F., "Testing Large Software with Automated Software Evaluation Systems", 1975 International Conference on Reliable Software, Los Angeles, CA, April 1975.

Richardson, M.H., and Potter, J.V., "Design of a Magnetic Card Modifiable Credential System Demonstration", MCI-73-3, Electronic Systems Division, L.G. Hanscom Field, Bedford, MA, December 1973.

Ritchie, D.M., and Thompson, K., "The UNIX Time-Sharing System", Communications of the ACM, Vol. 17, No. 7, July 1974, pp.365-375.

Rochkind, M.J., "The Secure Code Control System", IEEE Transactions on Software Engineering, Vol. 1, No. 4, December 1975, pp.364-370.

Schacht, J.M., "Jobstream Separator System Design", ESD-TR-75-86, The MITRE Corporation, Bedford, MA, September 1975, (AD A016403).

Schacht, J.M., "Jobstream Separator: Supportive Information", ESD-TR-75-354, The MITRE Corporation, Bedford, MA, September 1975, (AD A020521).

Sevcik, K.C., "Project SUE as a Learning Experience", Proceedings of the 1972 FJCC, Vol. 40, AFIPS Press, Montvale, NJ, 1972, pp.571-578.

Stotz, R., et al., "Information Automation", USC-ISI 1977 Annual Technical Report.

Walton, E., "The UCLA Pascal Translation System", UCLA Computer Science Department, Technical Report, Los Angeles, CA, January 1976.

Wensley, J.H., Green, M.W., Levitt, K.N., Shostak, R.E., "The Design, Analysis, and Verification of the SIFT Fault-Tolerant System", Second International Conference on Software Engineering, San Francisco, CA, October 1976.

Wensley, J.H., et al., "SIFT: Design and Analysis of a Fault-Tolerant Computer for Aircraft Control", Proceedings of the IEEE, Vol. 66, No. 10, October 1978, pp.1240-1255.

Wilson, C.A., "Air Force Data Services Center Security Procedures", MTR-2833, Vol. I, The MITRE Corporation, Bedford, MA, June 1974.

Wulf, W., et al., "HYDRA: The Kernel of a Multiprocessor Operating System", Communications of the ACM, Vol. 17, No. 41, 1972.

Yourden, E., Techniques of Program Structure and Design, Prentice-Hall, Inc., Englewood Cliffs, NJ, 1975.

"Information Security Program", Air Force Regulations, AFR-205-1, February 1973, AFSC Supplement, July 1973, ESD Supplement, January 1974.

MIL-STD-1521A (Software Auditing)

"STPE: Design Specification", Technical Memorandum TM-WD-8010/000/000, System Development Corporation, March 1979. "STPE: Specification Processor Output", Technical Memorandum, TM-WD-8010/100/00, System Development Corporation, March 1979, "Secure Transaction Processing Executive Project Summary and Plan", Technical Memorandum TM-WD-8008/000/00, System Development Corporation, March 1979, "STPE: Theorem Proof", Technical Memorandum TM-WD-8010/200/00, System Development Corporation, March 1979.